

# Printed Electronics, poems and typography

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A project in Interface Design – Grundlagen and  
Printed Electronics: Electronic Upcycling

| The creative process

| Design and planning

└ Capacitive sensing  
└  
└ Poems  
└  
└ Typography  
└

## | The creative process | Printed electronics

The first idea: button pressed and images lights up



<https://www.sciencedaily.com/releases/2015/07/150729113850.htm>

Elements: old canvas, acrylic paints, conductive ink, led, arduino, circuits and programming

Relatively easy, but too simple

## | The creative process | Printed electronics

Plans change: dims the light and play some musik

Patterns/words painted with conductive ink serve as buttons  
Press different words/patterns to play different songs

Even more advanced:

One-man acapella  
Each buttons presents a part and can be played simultaneously

Another variant:

Artistic reading of poems  
Play around with typography

Additional: volume control with capacitive sensing

## I Design and planning

The final idea:

3 30x30 canvases with conductive ink painted typography  
Poems of freedom, human rights and surviving

## | Design and planning | Poems of Maya Angelou

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You may write me down in history  
With your bitter, twisted lies  
You may tread me in the very dirt  
But still, like dust, I'll rise

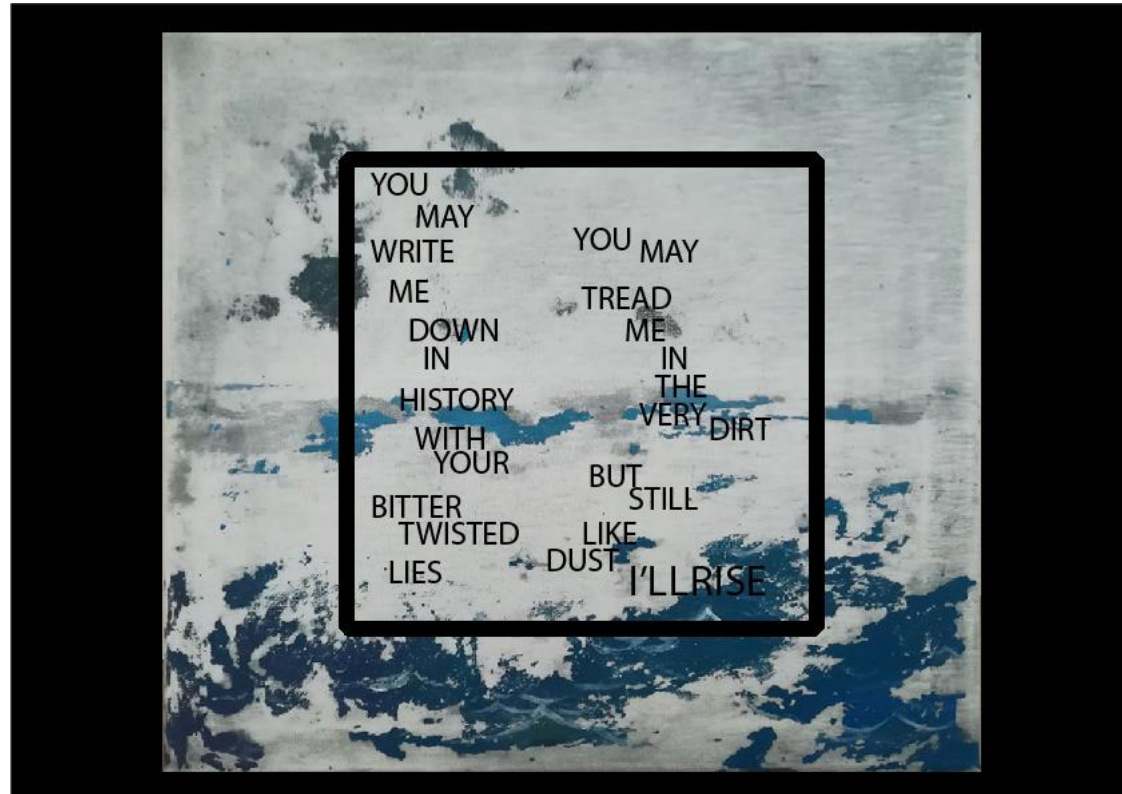
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Maya Angelou's life had spanned much of the African American struggle for racial equality. She was was an American poet, memoirist, and civil rights activist.

## | Design and planning | Upcycling



# | Design and planning | Circuits and capacitive sensing





## | Design and planning | Plans

Try out the quality of the different designs in regards of capacitive sensing

Record the poems in audio and design the sound so that if more poems played all at one, they will still be in harmony

Write program to make things work together